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2001 ROSS AVENUE			LE, THI Q		
SUITE 600 DALLAS, TX 75201-2980			ART UNIT	PAPER NUMBER	
			2613		
•			NOTIFICATION DATE	DELIVERY MODE	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mike.furr@bakerbotts.com ptomail1@bakerbotts.com

		Application No.	Applicant(s)				
Office Action Summary		10/787,496	AOKI ET AL.				
		Examiner	Art Unit				
		Thi Q. Le	2613				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	·						
1)⊠	Responsive to communication(s) filed on <u>26 February 2007</u> .						
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5) 6) 7)	Claim(s) 1-24 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1,2,6,9,11-13,17,20 and 22-24 is/are i	vn from consideration. rejected objected to.					
Applicati	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>26 February 2007</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority (	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen			•				
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

Application/Control Number: 10/787,496 Page 2

Art Unit: 2613

#### **DETAILED ACTION**

### Information Disclosure Statement

1. The information disclosure statements (IDS) filed on 6/23/2005, 4/20/2004, 3/30/2004 were considered by the examiner.

## Claim Objections

- 2. Claim 24 is objected to because of the following informalities:
  - a) In claim 24, line 1, replace "of" with --or--, after "wherein one".

Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Application/Control Number: 10/787,496

Art Unit: 2613

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5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Page 3

6. Claims 1, 9, 12 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. (US Patent # 7,088,920) and in view of Meckler (US PGPub 2002/0101632).

Consider **claim 1**, Krishnaswamy et al. disclose, a method for communicating optical traffic in a network comprising a plurality of network nodes (read as, nodes 102-105; figure 1), the method comprising: receiving traffic to be added to the network at a network node (read as, the add/drop element receive traffic to be added to the optical network; column 1 lines 49-53), the network operable to communicate received traffic in an optical signal comprising one or more channels (read as, wavelength division multiplex signal; column 2 line 41); determining one or more destination nodes of the received traffic (read as; it is inherent that the network management element must know the destination node, before it can establish communication; figure 2 column 4 lines 1-10); assigning the received traffic to one or more of the channels of the optical signal based on the determined one or more destination nodes (read as, selecting the appropriate wavelength; column 1 lines 59-67); configuring one or more of the network nodes to process the traffic contained in the assigned channels based on one or more destination nodes of

the optical traffic (read as, sending control channel to destination node before determining communication path and wavelength; figure 2 column 4 lines 1-53); and communicating the traffic through network in the assigned channels of the optical signal based on the determined one or more destination nodes (read as, selecting communication path and wavelength between two nodes; column 1 lines 59-67) (figures 1 and 2; column 1 line 49-column 2 line 2; column 2 lines 25-52; column 4 lines 1-42. Krishnaswamy et al. fails to disclose one of the criteria for determining the transmission path and wavelength between two nodes is data rate.

In related art, Meckler et al. disclose a criteria for determine a transmission mode base on data rate of the receive signal (paragraph 0171).

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of Meckler with Krishnaswamy et al. Since it would give the customer another choice for selection transmission path and wavelength, thus further reducing the cost for communicating information.

Consider claim 9, and as applied to claim 1 above, Krishnaswamy et al. as modified by Meckler further disclose, communicating the optical traffic comprises communicating the optical traffic as point-to-point traffic (read as, communication between node A and node B; Krishnaswamy et al.; figure 2) (Krishnaswamy et al.; figure 2; column 4 lines 1-10). Krishnaswamy et al. as modified by Meckler fail to explicitly disclose, determining the data rate comprises determining that the data rate of the optical traffic comprises greater than 5 Gbps.

It would have been obvious for a person of ordinary skill in the art to understand, that an optical fiber system disclosed by Krishnaswamy et al. as modified by Meckler is capable of establishing data communication with rate from OC-1 to OC-192 (51.84 Mbps to 9953.28

Application/Control Number: 10/787,496

Art Unit: 2613

Mbps). Since, the invention as described by Krishnaswamy et al. as modified by Meckler can select transmission path and wavelength, based on data rate and destination node, it is obvious that the system is able to detect data rate from OC-1 to OC-192 (read as, greater than 5 Gbps).

Page 5

Consider claim 12, Krishnaswamy et al. disclose, an optical network operable to communicate traffic in an optical signal in one or more channels, the network comprising: a plurality of network nodes (read as, nodes 102-105; figure 1) nodes operable to: receive traffic to be added to the network at the node (read as, the add/drop element receive traffic to be added to the optical network; column 1 lines 49-53); and communicate the received traffic through the network in the optical signal based on one or more nodes for which the received traffic is destined (read as, transmitting wavelength division multiplex signal; column 2 line 41); and a network management system (read as, network management element; column 1 lines 64-65) operable to: determine the one or more destination nodes of the received traffic (read as; it is obvious that the network management element must know destination node, before it can establish communication; figure 2 column 4 lines 1-10); assign the received traffic to the one or more channels of the optical signal based on the determined one or more destination nodes of the received traffic (read as, selecting transmission path and wavelength base on criteria, such as, shortest path; column 2 lines 25-52); and configure one or more of the nodes on the network to process the traffic contained in the assigned channels based on the determined one or more destination nodes of the received traffic (read as, sending control channel to destination node before determining communication path and wavelength; figure 2 column 4 lines 1-53) (figures 1 and 2; column 1 line 49-column 2 line 2; column 2 lines 25-52; column 4 lines 1-42).

Krishnaswamy et al. fails to disclose one of the criteria for determining the transmission path and wavelength between two nodes is data rate.

In related art, Meckler et al. disclose a criteria for determine a transmission mode base on data rate of the receive signal (paragraph 0171).

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of Meckler with Krishnaswamy et al. Since it would give the customer another choice for selection transmission path and wavelength, thus further reducing the cost for communicating information.

Consider claim 20, and as applied to claim 12 above, claim 20 is rejected for the same reason as claim 9 above.

7. Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. (US Patent # 7,088,920) and in view of Meckler (US PGPub 2002/0101632) and further in view of Lichtman et al. (US Patent # 7,072,584).

Consider claim 2, and as applied to claim 1 above, Krishnaswamy et al. as modified by Meckler disclosed the invention as described above; except for, determining the data rate comprises determining that the data rate of the traffic comprises from 100 Mbps to 1 Gbps; and communicating the optical traffic comprises communicating the optical traffic as optically-transmitted/electrically-selected/optically-dropped (OEO) traffic.

It would have been obvious for a person of ordinary skill in the art to understand, that an optical fiber system disclosed by Krishnaswamy et al. as modified by Meckler is capable of establishing data communication with rate from OC-1 to OC-192 (51.84 Mbps to 9953.28 Mbps). Since, the invention as described by Krishnaswamy et al. as modified by Meckler can

Page 7

Art Unit: 2613

select transmission path and wavelength, based on data rate and destination node, it is obvious that the system is able to detect data rate from OC-1 to OC-192 (read as, approximately 100 Mbps to approximately 1 Gbps).

In related art, Lichtman et al., disclose an optical ring network with traffic of type: optically-transmitted/electrically-selected/optically-dropped (OEO) (figures 3, 6; column 9 line 60 – column 10 line 50; column 13 lines 4-55) (note, received optical signal are converted to electrical signal by the line card, before entering the electronic switch).

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of Lichtman et al. with Krishnaswamy et al. as modified by Meckler. Because Lichtman et al. disclose a link protection method; which is crucial for recovering from a link breakage or node failure.

Consider claim 13, and as applied to claim 12 above, claim 13 is rejected for the same reason as claim 2 above.

8. Claims 6 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. (US Patent # 7,088,920) and in view of Meckler (US PGPub 2002/0101632) and further in view of Feuer et al. (US PGPub 2006/0153563).

Consider claim 6, and as applied to claim 1 above, Krishnaswamy et al. as modified by Meckler disclosed the invention as described above; except for, determining the data rate comprises determining that the data rate of the traffic comprises from 1 Gbps to 5 Gbps; and communicating the optical traffic comprises communicating the optical traffic as point-to-multipoint traffic.

Page 8

to approximately 5 Gbps).

It would have been obvious for a person of ordinary skill in the art to understand, that an optical fiber system disclosed by Krishnaswamy et al. as modified by Meckler is capable of establishing data communication with rate from OC-1 to OC-192 (51.84 Mbps to 9953.28 Mbps). Since, the invention as described by Krishnaswamy et al. as modified by Meckler can select transmission path and wavelength, based on data rate and destination node, it is obvious that the system is able to detect data rate from OC-1 to OC-192 (read as, approximately 1 Gbps

In related at, Feuer et al. disclose a wavelength division multiplex multicast ring network (read as, point-to-multipoint traffic) (figure 1; paragraphs 0008 and 0020-0021)

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of Feuer et al. with Krishnaswamy et al. as modified by Meckler. Because Feuer et al. disclose a method and system for multicasting that improves Quality of Service for transmission.

Consider claim 17, and as applied to claim 12 above, claim 17 is rejected for same reason as claim 6 above.

9. Claims 11 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. (US Patent # 7,088,920) and in view of Meckler (US PGPub 2002/0101632) and further in view of May et al. (US PGPub 2004/0252688).

Consider claim 11, and as applied to claim 1 above, Krishnaswamy et al. as modified by Meckler disclosed the invention as described above; except for, wherein the optical traffic is communicated in one or more General Framing Procedure (GFP) frames and the destination of the optical traffic is contained within an extension header of the GFP frame.

In related at, May et al. disclose an optical packet routing ring network. Wherein, traffic is communicated in one or more General Framing Procedure (GFP) frames (read as, frame; abstract) and the destination of the optical traffic is contained within an extension header of the GFP frame (read as, data with multiple header, each having one of the destination addresses) (abstract; figures 5 and 6; paragraphs 0032, and 0068).

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of May et al. with Krishnaswamy et al. as modified by Meckler. Since, May et al. provide a method and apparatus for efficient transport of optical packets over frame-based network.

Consider claim 22, and as applied to claim 12 above, claim 22 is rejected for same reason as claim 11 above.

10. Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. (US Patent # 7,088,920) and in view of Meckler (US PGPub 2002/0101632) and further in view of DeMartino (US PGPub 2006/0274734).

Consider claim 23, and as applied to claim 1 above, Krishnaswamy et al. as modified by Meckler disclosed the invention as described above; except for, wherein communicating the optical traffic comprises communicating the optical traffic as one of optically-transmitted/electrically-selected/optically-dropped (OEO) traffic, point-to-multipoint traffic, or point-to-point traffic depending on the determined data rate.

In related art, DeMartino disclose a system and methods for providing a plurality of communication services. Wherein, communicating the optical traffic comprises communicating the optical traffic as one of optically-transmitted/electrically-selected/optically-dropped (OEO)

traffic (read as, optical signal is transmitted optically from CO to remote node, where it is optical drop, and getting electrically converted from an optical signal, then are electrically distributed by an electronic Multiplexing and Distribution unit 66; paragraph 0054), point-to-multipoint traffic (read as, broadcasting video from CO to all subscribers; paragraphs 0007, 0033, 0081), or pointto-point (read as, voice/telephony from CO to specific subscriber; paragraphs 0007, 0033, 0081) traffic depending on the determined data rate (It is well known in the art of communication, that Video and Voice/telephony have different data rate. Wherein, video has a much higher data rate comparing to voice/telephony. Further, voice/telephony are particularly applied to point-to-point communication; whereas, video are mostly applied to point-to-multipoint or broadcasted communication. Thus, a system that are capable of transferring both video and voice/telephony over the same optical network, must be able to send video as a broadcast signal and voice as a point to point signal. Since, voice/telephony and video have different data rate, it can be said that depending on the data rate of an optical signal, it is transmitted as point-to-point or broadcast signal. Further, CO can transmits data to multiple remote nodes, wherein each remote node is assigned a particular wavelength,  $\lambda$ . CO transmits a composite signal which contains a plurality of wavelengths  $\lambda_1$ -  $\lambda_N$ , such that, a part of the composite signal is drop at a first remote node and transmission is continue to a second node, and a part of the composite is again dropped at a second node, etc (paragraph 0054, figure 6). Drop signal could either be broadcast signal, which has data rate at 2.5Gb/s, or ADSL signal, which has data rate at 6Mb/s. Broadcast signal is pass to video switching element (VSE) 74, wherein the VSE 74 select a set of broadcast video channels having a composite data rate in the range of 9-24.5Mb/s from a larger set of broadcast channels have composite data rate of 2.5Gb/s. An a subscribers sends an upstream control signal

to the remote terminal to select the desired audio/video channel. Thus, it can be said the broadcast video signal is an optically-transmitted/electrically-selected/optically-dropped traffic (figure 6, paragraph 0059).

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of DeMartino with Krishnaswamy et al. as modified by Meckler. Since the system disclosed by DeMartino is capable of interact with existing access lines, such as twisted part. It would reduce the cost of constructing a new infrastructure for the communication network. Further, the system can provides voice, video, and data services, thus providing a wide range of communication services over the same network.

Consider claim 24, and as applied to claim 12 above, Krishnaswamy et al. as modified by Meckler disclosed the invention as described above; wherein one or more of the plurality of nodes are operable to communicate the optical traffic as any of optically-transmitted/electrically-selected/optically-dropped (OEO) traffic, point-to-multipoint traffic, or point-to-point traffic depending on the determined data rate.

In related art, DeMartino disclose a system and methods for providing a plurality of communication services. Wherein, one or more of the plurality of nodes are operable to communicate the optical traffic as any of optically-transmitted/electrically-selected/optically-dropped (OEO) traffic (read as, optical signal is transmitted optically from CO to remote node, where it is optical drop, and getting electrically converted from an optical signal, then are electrically distributed by an electronic Multiplexing and Distribution unit 66; paragraph 0054), point-to-multipoint traffic (read as, broadcasting video from CO to all subscribers; paragraphs 0007, 0033, 0081, or point-to-point traffic (read as, voice/telephony from CO to specific

subscriber; paragraphs 0007, 0033, 0081) depending on the determined data rate (It is well known in the art of communication, that Video and Voice/telephony have different data rate. Wherein, video has a much higher data rate comparing to voice/telephony. Further, voice/telephony are particularly applied to point-to-point communication; whereas, video are mostly applied to point-to-multipoint or broadcasted communication. Thus, a system that are capable of transferring both video and voice/telephony over the same optical network, must be able to send video as a broadcast signal and voice as a point to point signal. Since, voice/telephony and video have different data rate, it can be said that depending on the data rate of an optical signal, it is transmitted as point-to-point or broadcast signal. Further, CO can transmits data to multiple remote nodes, wherein each remote node is assigned a particular wavelength,  $\lambda$ . CO transmits a composite signal which contains a plurality of wavelengths  $\lambda_1$ - $\lambda_{\rm N}$ , such that, a part of the composite signal is drop at a first remote node and transmission is continue to a second node, and a part of the composite is again dropped at a second node, etc (paragraph 0054, figure 6). Drop signal could either be broadcast signal, which has data rate at 2.5Gb/s, or ADSL signal, which has data rate at 6Mb/s. Broadcast signal is pass to video switching element (VSE) 74, wherein the VSE 74 select a set of broadcast video channels having a composite data rate in the range of 9-24.5Mb/s from a larger set of broadcast channels have composite data rate of 2.5Gb/s. An a subscribers sends an upstream control signal to the remote terminal to select the desired audio/video channel. Thus, it can be said the broadcast video signal is an optically-transmitted/electrically-selected/optically-dropped traffic (figure 6, paragraph 0059).

Page 13

Art Unit: 2613

It would have been obvious for a person of ordinary skill in the art at the time of the invention to incorporate the teachings of DeMartino with Krishnaswamy et al. as modified by Meckler. Since the system disclosed by DeMartino is capable of interact with existing access lines, such as twisted part. It would reduce the cost of constructing a new infrastructure for the communication network. Further, the system can provides voice, video, and data services, thus providing a wide range of communication services over the same network.

## Allowable Subject Matter

11. Claims 3-4, 7-8, 10, 14-15, 18-19 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Response to Arguments

12. Applicant's arguments filed 2/26/2007 have been fully considered but they are not persuasive.

On page 19 first paragraph, applicant argues, Meckler fail to disclose, teach or suggest, "assigning traffic to a particular channel of an optical signal based on a determined data rate". The Examiner disagrees for two reasons; first, in the prior office action, the examiner had not suggested that Meckler disclosed the method of "assigning traffic to a particular channel of an optical signal based on a determined data rate". Rather, the examiner indicated Krishnaswamy disclosed the method for "assigning traffic to a particular channel of an optical signal based on a

plurality of criteria" and Krishnaswamy fails to disclose "data rate" as being one of the criteria. Meckler, disclose a method for transmission path selection based on specific criteria; wherein the criteria is "data rate". Thus, a person of ordinary skill in the art at the time of the invention would have understood that an additional criterion for determining the transmission path and wavelength between two nodes is "data rate".

13. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., assigning traffic to a particular channel of an optical signal based on a determined data rate) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

A second reason; limitations of claim 1 did not suggest that traffic is be assigned to "a particular channel of an optical signal", rather claimed limitation suggested that traffic is assigned to "one or more of the channels of the optical signal". The phrase, "a particular" is different than "one or more" because the word "particular" is more limiting in nature than "one or more", such that "a particular" restricts a selection of 1 specific specimen. While "one or more" have no restriction on a specific, rather it is restricted to a selection of any 1 or more from a plurality.

14. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge

generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

In this case, Krishnaswamy disclosed a method for determining the best route and wavelength (i.e. channel) based on a set of criteria; and Meckler disclose a transmission path selection process to select among different transmission modes depending upon specific criteria, wherein the criteria data rate. Further, Meckler disclose a cost-effective method selecting transmission modes based on data rate. Thus, a person of ordinary skill in the art at the time of the invention would include the data rate into the criteria for determining best route and wavelength, to cost-effectively assign bandwidth for data transmission.

#### Conclusion

15. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/787,496 Page 16

Art Unit: 2613

16. Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

17. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Thi Le whose telephone number is (571) 270-1104. The Examiner can normally be reached on Monday-Friday from 7:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Application/Control Number: 10/787,496

Art Unit: 2613

Page 17

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Thi Le

KENNETH VANDERPUYE SUPERVISORY PATENT EXAMINER